

# Nathpa Jhakri Dam

Coordinates: 31°33′50″N 77°58′49″E﻿ / ﻿

The **Nathpa Jhakri Dam** is a concrete gravity dam on the Sutlej river in Himachal Pradesh, India. The primary purpose of the dam is hydroelectric power production and it supplies a 1,500 megawatts (2,000,000 hp) underground power station with water. Before reaching the power station, water is diverted through a 27.4 km (17 mi) headrace tunnel. Construction on the project began in 1993 and it was complete in 2004. The last two of the 250 megawatts (340,000 hp) Francis turbine-generators went online in March 2004. It is owned by SJVN.<sup>[3]</sup>

## Scheduling and generation despatch

The scheduling and despatch of the Nathpa Jhakri Hydro Power plant is done by Northern Regional Load Despatch Centre which is the apex body to ensure the integrated operation of the power system grid in the Northern region and comes under Power System Operation Corporation Limited (POSOCO).

## Sponsors and investors

- Sponsor Nathpa Jhakri Power Corporation
- Kvaerner / ABB / Siemens / Sulzer Escher Wyss
- Foundation Continental Construction Corporation
- BHEL
- Jaiprakash Associates Limited

## See also



**Water portal**



**Renewable energy portal**

- Karcham Wangtoo Hydroelectric Plant – situated upstream

### Nathpa Jhakri Dam



Location of Nathpa Jhakri Dam in India



Nathpa Jhakri Dam (Himachal Pradesh)

<b>Location</b>	<u>Himachal Pradesh</u> <u>India</u>
<b>Coordinates</b>	<span><span><span><span><span>31°33′50″N</span> <span>77°58′49″E</span></span></span><span><span>﻿</span> / <span>﻿</span></span><span><span></span></span></span></span>
<b>Construction began</b>	1993
<b>Opening date</b>	May 2004
<b>Construction cost</b>	<span>₹</span> 8187 <u>crores</u> <sup>[1]</sup>
<b>Owner(s)</b>	<u>SJVN</u>

### Dam and spillways

- List of dams and reservoirs in India

## References

1. "नाथपा झाकरी एचपीएस | SJVN Limited" (<https://sjvn.nic.in/businessprojectdetails/28/5/7>).
2. "India: National Register of Large Dams 2009" (<https://web.archive.org/web/20180219204531/http://www.cwc.nic.in/main/downloads/National%20Register%20of%20Large%20Dams%20009.pdf>) (PDF). Central Water Commission. Archived from the original (<http://www.cwc.nic.in/main/downloads/National%20Register%20of%20Large%20Dams%20009.pdf>) (PDF) on 19 February 2018. Retrieved 10 July 2011.
3. "Nathpa - Jhakri Hydroelectric Project, Himachal Pradesh, India" ([https://web.archive.org/web/20111002202512/http://www.portal.gsi.gov.in/gsiDoc/pub/cs\\_nathpajhakri\\_hep.pdf](https://web.archive.org/web/20111002202512/http://www.portal.gsi.gov.in/gsiDoc/pub/cs_nathpajhakri_hep.pdf)) (PDF). Geological Survey of India. Archived from the original ([http://www.portal.gsi.gov.in/gsiDoc/pub/cs\\_nathpajhakri\\_hep.pdf](http://www.portal.gsi.gov.in/gsiDoc/pub/cs_nathpajhakri_hep.pdf)) (PDF) on 2 October 2011. Retrieved 7 August 2011.

<b>Type of dam</b>	Concrete gravity
<b>Impounds</b>	<u>Satluj River</u>
<b>Height</b>	67.5 m (221 ft)
<b>Length</b>	185 m (607 ft)
<b>Dam volume</b>	200,000 m <sup>3</sup> (261,590 cu yd)
<b>Spillway capacity</b>	5,660 m <sup>3</sup> /s (199,881 cu ft/s)
<b>Reservoir</b>	
<b>Total capacity</b>	3,430,000 m <sup>3</sup> (2,781 acre·ft)
<b>Active capacity</b>	3,030,000 m <sup>3</sup> (2,456 acre·ft)
<b>Surface area</b>	234.5 m (769 ft) <sup>[2]</sup>
<b>Nathpa Jhakri Hydro Power Station</b>	
<b>Coordinates</b>	<u><span><span><span><span><span>31°29′52.5″N</span> <span>77°42′33″E</span></span></span><span><span>﻿</span> / <span>﻿</span></span><span><span></span></span></span></span></u>
<b>Operator(s)</b>	<u>SJVN</u>
<b>Commission date</b>	May 2004
<b>Hydraulic head</b>	428 m (1,404 ft)
<b>Turbines</b>	6 × 250 MW <u>Francis-type</u>
<b>Installed capacity</b>	1,500 <u>MW</u>
<b>Website</b>	
<u><a href="https://sjvn.nic.in/businessprojectdetails/28/5/7">https://sjvn.nic.in/businessprojectdetails/28/5/7</a></u>	

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